Architectural Technology Degree Map

STEM

● **CAREER DEGREE**   M **MIDDLETOWN CAMPUS**

A Day in the Life ...

A typical day in the life of an architecture student includes lecture and studio courses, study sessions with classmates, and conversations with professors.

Lecture/lab format reinforces skills and knowledge

Students are strongly encouraged to join the Architecture Club, where they have the opportunity to travel and experience architecture designed by world-renowned architects.

Three Reasons to Consider Architectural Technology

1. This program prepares graduates to enter the workforce as architectural team members or to transfer to upper division universities to complete a Bachelor of Architecture.
2. Small classes create learning communities where students are supported by classmates and professors.
3. Obtain an entry-level drafter position in an architectural or engineering firm.

Keep This in Mind

This program prepares graduates to enter the workforce as architectural team members.

Approximately 50% of graduates continue their studies in Bachelor of Architecture programs.

Students may wish to purchase a laptop with modeling and rendering capabilities. The degree will also require other tools and equipment for studio work.

Students learn time and project management.

Expectations of time spent outside of lecture and lab to complete long-term projects.

Critiques are a public presentation and discussion of student work.

Architectural Technology Gateway Courses:

- Gateway courses: ARC 105, ARC 111, CAD 101, ARC 101
- Key courses (for transfer):
  - *Architectural Design sequence:* ARC 111, ARC 112, ARC 211, ARC 212
  - *Visualization sequence:* ARC 101, ARC 102, CAD 101, CAD 102
  - *Architectural History sequence:* ARC 215, ARC 216
- Key courses (for employment):
  - *Building Materials and Working Drawings sequence:* ARC 105, ARC 106, ARC 205, ARC 206
- Electives: Two 3 credit Social Science courses. (Speak with your advisor to determine which courses would best transfer into a Bachelor of Architecture program)

Courses above have been recommended by the department to help introduce you to the program (Gateway courses) and guide you in selecting courses that will provide you with the best academic experience (Key courses and suggested Electives).

First Semester

Course #	Course Name	P, C, P/C	Cr
ENG 101	Freshman English 1	P	3
MAT 107	Technical Math 1	P	3
CAD 101	Introduction to CAD	P, P/C	3
ARC 101	Architectural Graphics	C, P/C	3
ARC 105	Building Materials and Methods 1	C, P/C	2
ARC 111	Architectural Design 1	C, P/C	3
	Total Semester Credits		17

Milestones
During this semester, students should:

- Lay the foundation of their architectural education, building basic skills in visualization, architectural design and building materials

SUNY Orange 2023-2024

Second Semester

Course #	Course Name	P, C, P/C	Cr
ENG 102	Freshman English 2	P	3
CAD 102	Computer Aided Drafting 2	P	2
ARC 102	Advanced Arch. Graphics	P	3
ARC 106	Building Materials and Methods 2	P	4
ARC 112	Architectural Design 2	P	3
ARC 215	Architecture to the 18th Century		3
	Total Semester Credits		18

Milestones
During this semester, students should:

- Develop advanced skills in architectural design, building materials, 3-D modeling, rendering and fabrication

Third Semester

Course #	Course Name	P, C, P/C	Cr
_____	Social Science Elective		3
ARC 211	Architectural Design 3	P	3
ARC 205	Working Drawings 1	P	3
ARC 201	Digital Portfolio	P	1
ARC 216	Architecture from the 19th Century		3
	Total Semester Credits		13

Milestones
During this semester, students should:

- Develop portfolio materials in preparation for application to transfer to institutions or professional positions in the workforce; continue development of architectural design and working drawings skills. Upon completion of this semester, students are qualified to work as draftsmen in architectural or engineering firms.

Fourth Semester

Course #	Course Name	P, C, P/C	Cr
_____	Social Science Elective		3
ARC 220	Mechanical and Electrical Equipment		3
ARC 206	Working Drawings 2	P	4
ARC 212	Architectural Design 4	P	4
PHY 111	Architectural Physics	P	3
	Total Semester Credits		17

Milestones
During this semester, students should:

- Complete capstone courses, to include ARC 206 (Working Drawings 2) and ARC 212 (Architectural Design 4)
- Prepare to enter the workforce upon graduation by seeking and securing a full time position
- For those seeking to continue their studies, submit final portfolio and transcripts for transfer credits.

TOTAL DEGREE CREDITS: 65